Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, B Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL/PMC/PDMS/DLC **Date: 25/12/2020**

TEST REPORT ON DRY LEAN CONCRETE (GRADATION TEST)

Sub: To conduct Gradation test on Dry Lean Concrete (DLC) Mix.
Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving an Maintenance School) in ward No-01 of Yelahanka Sub division.
Ref: Material Testing/PMC/20-21
Report submitted to: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP Bangalore.
Name of Agency/ contractor: Sri H V ONKARAPPA.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
26.50	**100**	100
19.00	**96.25**	75-95
9.50	**61.10**	50-70
4.75	**48.35**	30-55
2.36	**34.90**	17-42
0.600	**19.55**	8-22
0.300	**15.35**	7-17
0.150	**9.75**	2-12
0.075	**6.40**	0-10

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

N NO: YEL/PMC/PDMS/KERB

Date: 20/12/2020

KerbStone (Core Cutting Method) Test Report

Sub: Testing of concrete Kerb Stones (Core Cutting Method) – Compressive Strength)

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri H V ONKARAPPA.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M15**
Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 50 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength - N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	78	.354	2311.4	1.56	.960	26.3	13.39	14.47	13.39	17.36
2.	80	.368	2342.7	1.60	.960	26.3	13.39	14.47	13.39	17.36
3.	82	.382	2372.5	1.64	.960	25.10	12.78	13.81	13.25	16.57

AE-1

AE

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL/PMC/PDMS/M15(1:2:4)

Date: 25/12/2020

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri H V ONKARAPPA, Bangalore.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: **M15**

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Kerb PCC 1:2:4	18.12.2020	25.12.2020	8.02	7	211.00	9.38	9.69
2		"	"	8.10	"	215.00	9.56	
3		"	"	8.32	"	210.00	9.33	
4		"	"	8.24	"	220.00	9.78	
5		"	"	8.25	"	222.00	9.87	
6		"	"	8.40	"	230.00	10.22	

AE-1

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

AE

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL/PMC/PDMS/M30

Date: 11/01/2021

Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref: Material Testing/PMC/20-21

Report submitted to: Assistant Executive Engineer, Yelahanka Sub Division, BBMP Bangalore.

Name of Agency/ contractor: Sri H V ONKARAPPA.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm
Grade Of concrete: M30

Table1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Concrete Road 2	04.01.2021	11.1.2021	8.45	7	455.00	20.22	20.81
2		"	"	8.39	"	478.00	21.24	
3		"	"	8.53	"	484.00	21.51	
4		"	"	8.47	"	462.00	20.53	
5		"	"	8.29	"	451.00	20.04	
6		"	"	8.35	"	480.00	21.33	

A/E-1

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	27.80%	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	28.35%	Not more than 35.0 %
3.	Water absorption, %	0.43 %	Not more than 2.0 %
4.	Plasticity Index, %	NP	Not more than 6.0 %

AE-1

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/WMM Grad **Date: 19-12-2020**

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	94.36	95-100
26.50	---	-
22.40	74.14	60-80
11.20	52.15	40-60
4.75	36.40	25-40
2.36	26.71	15-30
0.600	18.04	8-22
0.075	3.43	0-5

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/WMM Grad

Date: 19-12-2020

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.40	95-100
26.50	---	-
22.40	71.15	60-80
11.20	53.25	40-60
4.75	32.65	25-40
2.36	24.95	15-30
0.600	18.30	8-22
0.075	4.15	0-5

AE-1

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.63%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.34 %**	Not more than 35.0 %
3.	Water absorption, %	**0.41%**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

AE-1

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

BBMP/YD/PDMS/WMM Gravel # 1733, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore-560 064

Date: 25.02.2020

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.40**	95-100
26.50	---	-
22.40	**71.50**	60-80
11.20	**52.60**	40-60
4.75	**34.80**	25-40
2.36	**22.15**	15-30
0.600	**17.30**	8-22
0.075	**4.10**	0-5

AE-1

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**26.80%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.44%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

AE-1

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT VG-30 **Date: 05-01-2021**

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25⁰ C	**53.10⁰ C**	Min. 45
2.	Ductility Value at 25⁰ C	**108.50 cm**	40
3.	Flash point	**245⁰ C**	Minimum 220⁰ C
4.	Softening point	**52.10⁰ C**	Min. 47

AE-1

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT-EX

Date: 05-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.52 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	96.24	90-100
19.0	81.16	71-95
13.20	74.41	56-80
4.75	48.71	38-54
2.36	36.04	28-42
0.300	17.89	7-21
0.075	6.39	2-8

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT-EX

Date: 05-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.56 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**97.13**	90-100
19.0	**82.12**	71-95
13.20	**71.42**	56-80
4.75	**48.68**	38-54
2.36	**32.07**	28-42
0.300	**18.88**	7-21
0.075	**6.58**	2-8

AE-1

AE

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT-STB **Date: 05-01-2021**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1250**	900
2	Marshall Flow at 60°C, mm.	**3.45**	2.0 - 4.0

AE-1

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT -EX

Date: 05-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.56%**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	94.62	90-100
19.0	81.92	71-95
13.20	76.18	56-80
4.75	49.37	38-54
2.36	36.92	28-42
0.300	17.33	7-21
0.075	6.41	2-8

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT-EX **Date: 05-01-2021**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54%**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	97.05	90-100
19.0	81.25	71-95
13.20	74.45	56-80
4.75	47.80	38-54
2.36	34.25	28-42
0.300	18.60	7-21
0.075	6.85	2-8

AE-1

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT-EX **Date: 05-01-2021**

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.50 %**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**97.65**	90-100
19.0	**84.25**	71-95
13.20	**71.50**	56-80
4.75	**48.35**	38-54
2.36	**35.55**	28-42
0.300	**17.20**	7-21
0.075	**6.80**	2-8

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT -STB **Date: 05-01-2021**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1255**	900
2	Marshall Flow at 60°C, mm.	**3.45**	2.0 - 4.0

AE-I

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT -EX

Date: 06-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.40 %**

2. **Gradation Test**

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.25**	90-100
9.5	**82.10**	70-88
4.75	**65.50**	53-71
2.36	**52.70**	42-58
1.18	**40.35**	34-48
0.600	**34.75**	26-38
0.300	**23.60**	18-28
0.150	**18.25**	12-20
0.075	**7.15**	4-10

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT-STB **Date: 06-01-2021**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1345**	900
2	Marshall Flow at 60°C, mm.	**3.32**	2.0 - 4.0

AE I

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT-EX

Date: 06-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.45 %**

2. **Gradation Test**

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**98.40**	90-100
9.5	**82.95**	70-88
4.75	**68.40**	53-71
2.36	**55.70**	42-58
1.18	**42.55**	34-48
0.600	**34.80**	26-38
0.300	**22.15**	18-28
0.150	**17.50**	12-20
0.075	**8.40**	4-10

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT-STB **Date: 06-01-2021**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1352**	900
2	Marshall Flow at 60°C, mm.	**3.41**	2.0 - 4.0

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT-STB **Date: 06-01-2021**

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1346**	900
2	Marshall Flow at 60°C, mm.	**3.30**	2.0 - 4.0

AE-1 AE

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT-EX

Date: 06-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.45 %**

2. **Gradation Test**

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	96.80	90-100
9.5	83.25	70-88
4.75	67.90	53-71
2.36	52.65	42-58
1.18	45.10	34-48
0.600	33.70	26-38
0.300	25.55	18-28
0.150	18.45	12-20
0.075	6.15	4-10

AE-1

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY

AE

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

BBMP/YD/PDMS/BIT-STB

Date: 06-01-2021

1.TEST REPORT ON BITUMINOUS MIXES :

(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.

Name of Work:-Developments of Roads and Drains at PDMS Premises (Police driving and Maintenance School) in ward No-01 of Yelahanka Sub division.

Ref.: Material testing/PMC/20-21,

Report Submitted to : Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri H V Onkarappa, Bangalore.

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1360**	900
2	Marshall Flow at 60°C, mm.	**3.55**	2.0 - 4.0

AE-1

A.E.E

SHRIYA CONSTRUCTION AND CONSULTANCY